

MAY 22 1997

Jonathan E. Bryant, Ph.D.
BASF Corporation
Agricultural Products
P.O. Box 13528
Research Triangle Park, NC 27709-3528

Dear Dr. Bryant:

Subject: Long Island, NY Prohibition
Frontier Herbicide
EPA Registration No. 7969-144 ✓
Frontier 6.0 Herbicide
EPA Registration No. 7969-147
Your Submissions Dated May 12, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. Modify the New York prohibition so it reads similar to the following:

The New York State Department of Environmental Quality prohibits use on Long Island, NY.

b. In the italic script at the top of the supplemental labeling delete the old registration number.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

James A. Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

Enclosure

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SUPPLEMENTAL LABELING

FRONTIER® HERBICIDE

FOR WEED CONTROL IN SWEET CORN, GRAIN SORGHUM, DRY BEAN AND PEANUT

E.P.A. Reg. No. 7969-144

DO NOT USE ON LONG ISLAND, NY

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

IMPORTANT

Before using this product, read and carefully observe all applicable directions, restrictions, and precautionary statements on the EPA-registered container label. In addition read and follow General Information, Weeds Controlled, Use Methods and Timing, Mixing and Application sections of the Directions For Use Booklet attached to the FRONTIER® Herbicide (FRONTIER) container. Eclipta is now added to the list of weeds that are partially controlled by FRONTIER in all crop uses. Follow all directions given below for crop specific uses in sweet corn, grain sorghum, dry bean and peanut.

If mechanically incorporated into soil, use uniform shallow surface incorporation. Avoid deep (more than 1 to 2 inch depth) incorporation or reduced weed control and/or crop injury may occur.

FRONTIER SWEET CORN USE PROGRAMS

FRONTIER may be used as a preplant surface, preplant incorporated, preemergence or postemergence (up to 8 inch tall sweet corn) application in sweet corn. A single or split application may be used.

Before application to sweet corn, verify with your local seed company (supplier) the selectivity of FRONTIER on your specific variety(s). This precaution will help avoid potential injury to sensitive varieties.

Delayed emergence or leaf wrapping of sweet corn may occur if extreme conditions of high rainfall with extended periods of water saturated soil and/or cool weather occur during sweet corn germination and emergence.

Sweet corn may be grazed or fed to livestock at 40 or more days after application of FRONTIER. Sweet corn ears may be harvested at 50 or more days after application of FRONTIER.

FRONTIER USE RATES IN SWEET CORN

For FRONTIER rates in sweet corn, use rates given for field corn, seed corn and popcorn in Directions for Use Booklet attached to the FRONTIER container.

ACCEPTED
with comments
MAY 22 1997

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7969-144

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FRONTIER TANK MIXTURES AND SEQUENTIAL USE PROGRAMS IN SWEET CORN

Tank mixtures and sequential use programs for field corn, seed corn, and popcorn in Directions for Use Booklet attached to the FRONTIER container label apply for use in sweet corn when the companion product is registered for sweet corn use. Always read the companion product label(s) to verify allowed uses in sweet corn including: specific use rates by soil types, weed species, and weed or crop growth stage. Follow all precautions and restrictions including state and local use restrictions that may apply to specific companion products. In addition this product can be used prior to or tank mixed with Basagran® or Laddok® S-12 herbicides for use on sweet corn in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

FRONTIER GRAIN SORGHUM USE PROGRAMS

FRONTIER may be used as a preplant surface, preplant incorporated, or preemergence application in sorghum. A single or split application program may be used. All FRONTIER applications must only be made to sorghum seed that has been properly treated by the seed company with an approved chloroacetamide herbicide safener or severe injury may occur.

Under high soil moisture and/or cool conditions, FRONTIER application may cause temporary stunting or leaf wrapping of sorghum. Sorghum will normally outgrow these symptoms in 10-14 days.

For best performance make preemergence surface applications within 5 days of the last preplant tillage. If weeds are emerged apply FRONTIER with contact herbicides to control emerged vegetation. ✓

Sorghum forage may be grazed or fed to livestock at 60 or more days after application. Grain and fodder may be harvested and fed at 80 or more days after application of FRONTIER.

FRONTIER is not registered for use on sweet or forage sorghum.

FRONTIER USE RATES IN SORGHUM

For FRONTIER rates in sorghum use rates given for field corn, seed corn and popcorn in the Directions for Use Booklet attached to the FRONTIER container. Additional rate recommendations specific for sorghum: for best weed control in coarse textured soil use 16 fl oz/A and for sorghum produced under irrigation, use a minimum of 18 fl oz/A.

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FRONTIER TANK MIXTURES AND SEQUENTIAL USE PROGRAMS IN SORGHUM

FRONTIER may be applied prior to, in tank mix with, or following use of one or more of the following herbicides in sorghum: atrazine, BANVEL®, Cyclone® CF, Fallow Master™, Gramoxone® Extra, glyphosate (Roundup®), Landmaster® BW and Milo-Pro®. In addition this product can be used in sequential applications with other herbicides labeled for use on grain sorghum such as: Basagran, Buctril®, Laddok S-12, MARKSMAN®, WEEDMASTER® or 2,4-D. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

When using tank mix or sequential applications with FRONTIER, always read the companion product label(s) to determine specific use rates by soil types, weed species and weed or crop growth stage. In addition, follow precautions and restrictions including state and local use restrictions that may apply to specific products.

FRONTIER plus atrazine (0.75 to 2.0 lb ai/A)	Applications may be made preplant, preplant incorporated, or preemergence. Do not apply on coarse textured soils or medium textured soils with less than 1.5% organic matter.
FRONTIER plus Milo-Pro (0.60 to 2.3 lb ai/A)	Applications may be made preplant or preemergence in states where Milo-Pro is approved for use. Do not apply this combination on sand or sandy loam soils.
FRONTIER plus Cyclone CF or Gramoxone Extra (1.5 to 3.0 pt/A) or Roundup (glyphosate) (0.5 to 4.0 lb ai/A) or Landmaster BW or Fallow Master	Apply for burndown of emerged weeds in minimum or no-tillage production system. Application with Cyclone, Gramoxone or Roundup must be made before crop emergence. For improved burndown of broadleaf weeds, BANVEL may be added to mixtures with Cyclone, Gramoxone and Roundup (glyphosate) if application is made 15 or more days before planting. Landmaster or Fallow Master applications must be made 14 or more days before sorghum seeding.

FRONTIER DRY BEAN USE PROGRAMS

FRONTIER may be used as a preplant surface applied, preplant incorporated, preemergence or early postemergence (first to third trifoliolate stage) treatment to all dry bean classes (such as small whites, navy, black turtle soup, pink, pinto, great northern, red Mexican, red kidney and cranberry) and lentils. A single or split application program may be used.

Before application to dry beans, verify with your local seed company (supplier) the selectivity of FRONTIER on your specific dry bean class and variety. This precaution will help avoid potential injury to sensitive classes or varieties.

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This product is not registered for use in succulent beans or cowpeas.

Dry beans may be harvested 70 or more days after FRONTIER application.

If extreme conditions of high rainfall and extended periods of water saturated soil occur during dry edible bean germination or early seedling development, FRONTIER use may result in temporary growth suppression. This suppression has not resulted in reduced dry edible bean yield.

FRONTIER use postemergence may occasionally result in some temporary spotting or browning of dry bean leaves.

FRONTIER USE RATES IN DRY BEAN

For Frontier rates in dry bean use rates given for soybeans in the Directions for Use Booklet attached to the FRONTIER container. Additional recommendations specific to dry beans are to use FRONTIER at a maximum of 16 fl oz/A on coarse soils with CEC < 5 or organic matter less than 1.5% for soil applications made prior to crop emergence.

FRONTIER may be tank mixed with or applied sequentially in one or more of the following herbicide combination programs.

FRONTIER TANK MIXTURES AND SEQUENTIAL USE PROGRAMS IN DRY BEAN

FRONTIER may be applied prior to, in tank mix with, or following use of one or more of the following herbicides in dry bean: Basagran, Eptam®, glyphosate (Roundup), paraquat (Gramoxone Extra), Prowl® 3.3 EC, Pursuit®, Sonalan™, and trifluralin (Treflan™). In addition, FRONTIER may be applied postemergence following preplant or preemergence use of alachlor (Lasso®) or Dual®. In addition this product can be tank mixed with Far-Go® or sethoxydim (Poast®, Ultima™ 160) herbicides for use on dry beans in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

When using tank mix or sequential applications with FRONTIER, always read the companion product label(s) to determine specific dry bean classes registered, use rates by soil types, weed species, and weed or crop growth stage. In addition, follow precautions and restrictions including state and local use restrictions that may apply to specific products.

FRONTIER plus Basagran 4 EC (1.0 to 2.0 pt/A)	Make application after the first trifoliolate leaf has fully expanded through the third trifoliolate leaf stage of dry bean
FRONTIER plus Pursuit® 2.0 SL (2.0 to 3.0 fl oz/A) or Pursuit® 70DG (0.72 to 1.1 oz/A)	Application may be made preplant, preemergence or postemergence. Make postemergence application after first trifoliolate leaf has expanded through the third trifoliolate leaf stage of dry bean..
FRONTIER plus Prowl 3.3 EC (1.2 to 3.6 pt/A) or trifluralin (0.5 to 1.0 lb ai/A) Treflan™ 4 EC (1.0 to 2.0 pt/A) or Sonalan™ 3 EC (1.5 to 4.5 pt/A) or Eptam® 7-E (2.0 to 4.5 pt/A)	FRONTIER may be used in tank mix with or applied sequentially after the use of these products. For best performance, use FRONTIER preemergence following preplant incorporation of these products. If tank mixed, applications must be mechanically incorporated into the soil. Use uniform thorough incorporation in upper 1 to 2 inches of soil.
FRONTIER plus Roundup (glyphosate) (0.5 to 4.0 lb ai/A) or Gramoxone Extra (1.5 to 3.0 pt/A)	Apply for burndown of emerged weeds in minimum or no-till production systems. Application must be made before crop emergence.

FRONTIER PEANUT USE PROGRAMS

FRONTIER may be used preplant surface, preplant incorporated, preemergence or postemergence (up to 80 days prior to harvest) in peanut. A single or split application may be used.

Peanut hay or straw may be grazed or fed to livestock at 80 or more days after last application of FRONTIER.

FRONTIER USE RATES IN PEANUT

Use FRONTIER at 13-25 fl oz/A when applied alone or in tank mix combinations. Use 16 to 25 fl oz/A for soil applications and use the higher rates (20-25 fl oz/A) for improved control or suppression of difficult weeds like yellow nutsedge, Florida beggarweed, eclipta, common ragweed and other broadleaf species.

FRONTIER may also be used in a split application using 1/2 to 2/3 the maximum rate initially and the remaining 1/2 to 1/3 in sequential application. Do not exceed a maximum of 25 fl oz/A per crop year.

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FRONTIER TANK MIXTURES AND SEQUENTIAL USE PROGRAMS IN PEANUT

FRONTIER may be applied prior to, in tank mix with, or after use of one or more of the following herbicides in peanut: Balan™, Basagran, Blazer®, Bugle®, Classic®, 2,4-DB (Butyrac®), Dual, Lasso, Prowl 3.3 EC, Poast, Poast Plus®, Pursuit, Sonalan, Starfire®, Storm®, Tough®, trifluralin (Treflan), Vernam® or Zorial®, in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

When using tank mix or sequential applications with FRONTIER, always read the companion product label(s) to determine specific use rates by soil type, weed species, and weed or crop growth stage. In addition, follow precautions and restrictions including state and local use restrictions that may apply to specific products.

This labeling must be in the possession of the user at the time of the pesticide application.

REGISTERED TRADEMARKS

Balan™, Sonalan™, Sonalan™ 3 EC, Treflan™ and Treflan® 4 EC are trademarks of DowElanco.

Basagran®, Blazer®, Laddok® S-12, Poast®, Poast Plus®, Storm® and Ultima™ 160 are trademarks of BASF Corporation.

Bugle® is a registered trademark of AgroEvo USA Company.

Buctril® and Butyrac® are registered trademarks of Rhone-Poulenc Ag Company.

Classic® is a registered trademark of E.I. Du Pont de Nemours and Co., Inc.

Cyclone® CF, Eptam®, Eptam® 7-E, Gramoxone® Extra, Starfire® and Vernam® are registered trademarks of Zeneca, Inc.

Dual® is a registered trademark of Ciba Geigy Corporation.

Fallow Master™, Far-Go®, Landmaster® BW, Roundup® and Lasso® are trademarks of Monsanto Agricultural Company.

Milo-Pro® is a registered trademark of Griffin Corporation.

Prowl® 3.3 EC, Pursuit®, Pursuit® 2.0 SL and Pursuit® 70DG are registered trademarks of American Cyanamid Company.

BANVEL®, FRONTIER®, MARKSMAN®, and WEEDMASTER® Herbicide are registered trademarks of BASF AG.

TOUGH® and ZORIAL® Herbicide are registered trademarks of Sandoz, Ltd.



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